

# Work Order ID 141223

February 01, 2016 2:48:53 PM

**\*141223\***

Page 1

Item ID: D209-669-013 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: AH-1F/P/S Skidtube LH with Standard Wearplates  
 Start Date: 2/1/2016 Start Qty: 1.00 **\*1\*** Cust Item ID:  
 Required Date: 3/14/2016 Req'd Qty: 1.00 **\*1\*** Customer:  
 Reference:

Approvals: Process Plan: SW Date: 20160203 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description    | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|-----------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| Draw Nbr                       | Revision Nbr                |                      |         |        |              |               |               |                  |                |
| D209-669-013                   | Rev B (DEO) <u>16.02.05</u> |                      | DAS     |        |              |               |               |                  | MLC 16-03-08   |
| DSI 9450                       | Rev A                       |                      | 6       |        |              |               |               |                  |                |
|                                |                             |                      | 9-89    |        |              |               |               |                  |                |

100 Document Control 0.00  
**\*100\*** DOCUMENT CONTROL  
 DC Memo 0.00  
 Doc.Control -USB or Paperwork Photocopy bluefile & type labels per PPP d209-669-013 CHG004

DAS 31 9-89 1 16/03/24

110 Pick Kit 0.00  
**\*110\*** Memo 0.00  
 Packaging  
 Packaging

MAR 07 2016  
 DAS 6 9-89  
 DAS 9-89

**B141664**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                                                                                                                                     |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>             Skid-tube <input type="checkbox"/><br/>             Machining <input type="checkbox"/><br/>             Thermoforming <input type="checkbox"/><br/>             Large Fab <input type="checkbox"/> </div> <div>             Cross tube <input type="checkbox"/><br/>             Small Fab <input type="checkbox"/><br/>             Finishing <input type="checkbox"/><br/>             Composite <input type="checkbox"/> </div> <div>             Water Jet <input type="checkbox"/><br/>             Prod. Eng. Coord. <input type="checkbox"/><br/>             Rec/Store/Packaging <input type="checkbox"/><br/>             Supplier <input type="checkbox"/> </div> <div>             Engineering <input type="checkbox"/><br/>             Quality <input type="checkbox"/><br/>             Other <input type="checkbox"/> </div> </div> |  |  |                                                                                                                                                     |  |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Step #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | MRB (QSI042) Approval<br><br><br>Completed By<br><br><br>Lead hand / Supervisor<br>Approval Verification<br><br><br>QC / QA Coordinator<br>Approval |  |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |                                                                                                                                                     |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                                                                                                                                     |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                                                                                                                                     |  |  |
| <b>Root Cause</b><br><div style="display: flex; justify-content: space-between;"> <div>             Environment <input type="checkbox"/><br/>             Design <input type="checkbox"/><br/>             Doc/Data <input type="checkbox"/><br/>             Equip/Tooling <input type="checkbox"/><br/>             Handling/Pre <input type="checkbox"/><br/>             Material <input type="checkbox"/><br/>             Internal Transport <input type="checkbox"/><br/>             Tribal Knowledge <input type="checkbox"/><br/>             LOA <input type="checkbox"/><br/>             Substation <input type="checkbox"/><br/>             Past Expiry Date <input type="checkbox"/><br/>             Misidentified <input type="checkbox"/> </div> <div>             No Re-verification <input type="checkbox"/><br/>             Operator <input type="checkbox"/><br/>             Offset/Setup <input type="checkbox"/><br/>             Supplier <input type="checkbox"/><br/>             Training <input type="checkbox"/><br/>             Use for Testing <input type="checkbox"/><br/>             Poor Information <input type="checkbox"/><br/>             Rushing <input type="checkbox"/><br/>             Product Improvement <input type="checkbox"/><br/>             Process Improvement <input type="checkbox"/><br/>             Manufacturing Process <input type="checkbox"/><br/>             Past Due <input type="checkbox"/> </div> </div> |  | <b>FAULT CATEGORY</b><br><div style="display: flex; justify-content: space-between;"> <div>             Pressure/Forced <input type="checkbox"/><br/>             Bending <input type="checkbox"/><br/>             Centre Not Concentric <input type="checkbox"/><br/>             Cracks <input type="checkbox"/><br/>             Crimp/Kink/Ripple/Wave <input type="checkbox"/><br/>             Cuffs <input type="checkbox"/><br/>             Crushing <input type="checkbox"/><br/>             Heat Treat <input type="checkbox"/><br/>             Wave/Twist in Tube <input type="checkbox"/><br/>             Marks/Chatter <input type="checkbox"/> </div> <div>             Temperature/Cure <input type="checkbox"/><br/>             Set-up <input type="checkbox"/><br/>             BOM/Route <input type="checkbox"/><br/>             Broken/Damage/Defect <input type="checkbox"/><br/>             Inspection Incomplete/Unqualified <input type="checkbox"/><br/>             Contamination <input type="checkbox"/><br/>             Countersink <input type="checkbox"/><br/>             Cut Too Short <input type="checkbox"/><br/>             Instructions Incomplete/Unclear <input type="checkbox"/><br/>             Drill Holes <input type="checkbox"/> </div> <div>             Power Loss/Surge <input type="checkbox"/><br/>             Folio/Program <input type="checkbox"/><br/>             Grain <input type="checkbox"/><br/>             Weld <input type="checkbox"/><br/>             Wrong Stock Pulled <input type="checkbox"/><br/>             Out of Sequence <input type="checkbox"/><br/>             Off-set <input type="checkbox"/><br/>             Mislabeled <input type="checkbox"/><br/>             Fit/Function <input type="checkbox"/><br/>             Misaligned/off center <input type="checkbox"/> </div> <div>             Positioned Wrong <input type="checkbox"/><br/>             Outside Dimensions <input type="checkbox"/><br/>             Over/Under tolerance <input type="checkbox"/><br/>             Part Incorrect <input type="checkbox"/><br/>             Part Lost/Missing <input type="checkbox"/><br/>             Part Moved <input type="checkbox"/><br/>             Drawing <input type="checkbox"/><br/>             Finish <input type="checkbox"/><br/>             Misread <input type="checkbox"/><br/>             Turning Sequence <input type="checkbox"/> </div> </div> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                                                                                                                                     |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | OTHER : <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                                                                                                                                     |  |  |

**Work Order ID 141223**

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**\*141223\***

Page 2

Item ID: D209-669-013

Accept

**\*N900040100\***

Setup Start

**\*NS1\***

Revision ID:

Stop

**\*NS2\***

Item Name: AH-1F/P/S Skidtube LH with Standard Wearplates

Start Date: 2/1/2016 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 3/14/2016 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start

**\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop

**\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description                              | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code<br>DAS<br>31<br>9-89 | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|-------------------------------------------------------|----------------------|---------|--------|-----------------------------------|---------------|---------------|------------------|----------------|
| 120                            | QC4- 100% Inspect kits for completeness               | 0.00                 |         |        |                                   | 1             | 8             | 16/03/28         |                |
| <b>*120*</b>                   |                                                       |                      |         |        |                                   |               |               |                  |                |
| QC                             | Memo                                                  | 0.00                 |         |        |                                   |               |               |                  |                |
| Quality Control                |                                                       |                      |         |        |                                   |               |               |                  |                |
| 130                            | Packaging                                             | 0.00                 |         |        |                                   |               |               |                  |                |
| <b>*130*</b>                   |                                                       |                      |         |        |                                   |               |               |                  |                |
| Packaging                      | Memo                                                  | 0.00                 |         |        |                                   |               |               |                  |                |
| Packaging                      | Identify and pack for shipping as per PPPD209-669-013 |                      |         |        |                                   |               |               |                  |                |
|                                | Location: _____                                       |                      |         |        |                                   |               |               |                  |                |
| 140                            | QC21- Final Inspection - Work Order Release           | 0.00                 |         |        |                                   |               |               |                  |                |
| <b>*140*</b>                   |                                                       |                      |         |        |                                   |               |               |                  |                |
| QC                             | Memo                                                  | 0.00                 |         |        |                                   |               |               |                  |                |
| Quality Control                |                                                       |                      |         |        |                                   |               |               |                  |                |

MAR 20 2016  
MAR 29 2016  
16329

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |  |                                                                                                                   |  |
|--------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--|-------------------------------------------------------------------------------------------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ |  | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> |  | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>             Skid-tube <input type="checkbox"/><br/>             Machining <input type="checkbox"/><br/>             Thermoforming <input type="checkbox"/><br/>             Large Fab <input type="checkbox"/> </div> <div>             Cross tube <input type="checkbox"/><br/>             Small Fab <input type="checkbox"/><br/>             Finishing <input type="checkbox"/><br/>             Composite <input type="checkbox"/> </div> <div>             Water Jet <input type="checkbox"/><br/>             Prod. Eng. Coord. <input type="checkbox"/><br/>             Rec/Store/Packaging <input type="checkbox"/><br/>             Supplier <input type="checkbox"/> </div> <div>             Engineering <input type="checkbox"/><br/>             Quality <input type="checkbox"/><br/>             Other <input type="checkbox"/> </div> </div> |  |                                 |  |                                                                                                                   |  |
| Date :                                                       |  | Step #:                                                                                                                                                                            |  | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |  | <b>MRB (QS1042) Approval</b><br><br><div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div> |  |
| Description Work Order Deviation                             |  |                                                                                                                                                                                    |  | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                 |  |                                                                                                                   |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |  |                                                                                                                   |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |  | Completed By                                                                                                      |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                 |  | Lead hand / Supervisor<br>Approval Verification                                                                   |  |
|                                                              |  |                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | QC / QA Coordinator<br>Approval |  |                                                                                                                   |  |

| Root Cause                                  |                          |                       |                          | FAULT CATEGORY                                                                                |                          |                                   |                          |
|---------------------------------------------|--------------------------|-----------------------|--------------------------|-----------------------------------------------------------------------------------------------|--------------------------|-----------------------------------|--------------------------|
| Environment <input type="checkbox"/>        | <input type="checkbox"/> | No Re-verification    | <input type="checkbox"/> | Pressure/Forced                                                                               | <input type="checkbox"/> | Temperature/Cure                  | <input type="checkbox"/> |
| Design <input type="checkbox"/>             | <input type="checkbox"/> | Operator              | <input type="checkbox"/> | Bending                                                                                       | <input type="checkbox"/> | Set-up                            | <input type="checkbox"/> |
| Doc/Data <input type="checkbox"/>           | <input type="checkbox"/> | Offset/Setup          | <input type="checkbox"/> | Centre Not Concentric                                                                         | <input type="checkbox"/> | BOM/Route                         | <input type="checkbox"/> |
| Equip/Tooling <input type="checkbox"/>      | <input type="checkbox"/> | Supplier              | <input type="checkbox"/> | Cracks                                                                                        | <input type="checkbox"/> | Broken/Damage/Defect              | <input type="checkbox"/> |
| Handling/Pre <input type="checkbox"/>       | <input type="checkbox"/> | Training              | <input type="checkbox"/> | Crimp/Kink/Ripple/Wave                                                                        | <input type="checkbox"/> | Inspection Incomplete/Unqualified | <input type="checkbox"/> |
| Material <input type="checkbox"/>           | <input type="checkbox"/> | Use for Testing       | <input type="checkbox"/> | Cuffs                                                                                         | <input type="checkbox"/> | Contamination                     | <input type="checkbox"/> |
| Internal Transport <input type="checkbox"/> | <input type="checkbox"/> | Poor Information      | <input type="checkbox"/> | Crushing                                                                                      | <input type="checkbox"/> | Countersink                       | <input type="checkbox"/> |
| Tribal Knowledge <input type="checkbox"/>   | <input type="checkbox"/> | Rushing               | <input type="checkbox"/> | Heat Treat                                                                                    | <input type="checkbox"/> | Cut Too Short                     | <input type="checkbox"/> |
| LOA <input type="checkbox"/>                | <input type="checkbox"/> | Product Improvement   | <input type="checkbox"/> | Wave/Twist in Tube                                                                            | <input type="checkbox"/> | Instructions Incomplete/Unclear   | <input type="checkbox"/> |
| Substation <input type="checkbox"/>         | <input type="checkbox"/> | Process Improvement   | <input type="checkbox"/> | Marks/Chatter                                                                                 | <input type="checkbox"/> | Drill Holes                       | <input type="checkbox"/> |
| Past Expiry Date <input type="checkbox"/>   | <input type="checkbox"/> | Manufacturing Process | <input type="checkbox"/> | <b>OTHER :</b><br><div style="border: 1px solid black; height: 40px; margin-top: 5px;"></div> |                          |                                   |                          |
| Misidentified <input type="checkbox"/>      | <input type="checkbox"/> | Past Due              | <input type="checkbox"/> |                                                                                               |                          |                                   |                          |

# Picklist Print

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Page 1

Work Order ID: 141223

**\*141223\***

Parent Item: D209-669-013

**\*D209-669-013\***

Parent Item Name: AH-1F/P/S Skidtube LH with Standard Wearplates

Start Date: 2/1/2016

Required Date: 3/14/2016

Start Qty: 1.00

Required Qty: 1.00

## Comments:

New IPP 08.02.13 LL, verified by:DD

IPP Rev:B 08-05-20 chg QTY of D2570 DD verified by: IPP REV:C

12.06.07 ECN 12-599 DD VERF:EC

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|

D209-669-043

Manufactured

No

110

Each

4.0000

1

1

**\*D209-669-043\***

AH-1F/P/S Replacement Skidtube with Standard Wearplates, Fits LH or RH

\*\*

13141664

**SMB**

### Location

### Loc Qty

### Loc Code

Mezz

4

39205

2

39206

2

D2917-1

Manufactured

No

110

Each

0.0000

2

2

**\*D2917-1\***

Saddle LH

DAS  
31  
9-89

\*\*

141646

DAS

6

9-89

DAS

6

9-89

D2918-1

Manufactured

No

110

Each

3.0000

2

2

**\*D2918-1\***

Saddle LH

DAS  
31  
9-89

\*\*

141669

DAS

6

9-89

DAS

6

9-89

### Location

### Loc Qty

### Loc Code

Mezz

3

84938

3

MAR 15 2016

# Picklist Print

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Page 2

Work Order ID: 141223

**\*141223\***

Parent Item: D209-669-013

**\*D209-669-013\***

Parent Item Name: AH-1F/P/S Skidtube LH with Standard Wearplates

Start Date: 2/1/2016

Required Date: 3/14/2016

Start Qty: 1.00

Required Qty: 1.00

AN4-51A

Purchased

No

110

Each

157.0000

8

8

**\*AN4-51A\***

Bolt

**\*\***

DAS  
31  
9-89

Location

Loc Qty

Loc Code

|         |     |  |
|---------|-----|--|
| FG      | 5   |  |
| 122993  | 5   |  |
| over004 | 50  |  |
| m133769 | 50  |  |
| ST340   | 102 |  |
| m132536 | 1   |  |
| m133077 | 1   |  |
| m133316 | 100 |  |

D2570

Manufactured

No

110

Each

459.0000

24

24

**\*D2570\***

Bushing

**\*\***

DAS  
31  
9-89

Location

Loc Qty

Loc Code

|        |     |  |
|--------|-----|--|
| FG     | 12  |  |
| 88781  | 12  |  |
| FP001  | 89  |  |
| 133432 | 3   |  |
| 137172 | 86  |  |
| ST008  | 57  |  |
| 136511 | 9   |  |
| 138272 | 48  |  |
| ST012a | 301 |  |
| 138273 | 200 |  |
| 138946 | 101 |  |

DAS  
31  
9-89

DAS  
31  
9-89

MAR 07 2016

# Picklist Print

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Work Order ID: 141223

**\*141223\***

Parent Item: D209-669-013

**\*D209-669-013\***

Parent Item Name: AH-1F/P/S Skidtube LH with Standard Wearplates

Start Date: 2/1/2016

Required Date: 3/14/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

110

Each

3,332.000

24

24

**\*MS21042L 4\***

Locknut

**\*\***

DAS  
31  
989

Location

Loc Qty

Loc Code

FP001

41

m133363

41

GA

26

m127813

26

ST007

1500

m134055

1500

ST303

1668

m133769

1668

ST305

97

m130922

97

AN5-36A

Purchased

No

110

Each

131.0000

4

4

**\*AN5-36A\***

Bolt

**\*\***

DAS  
31  
989

Location

Loc Qty

Loc Code

over004

50

M134134

50

ST299A

1

M131957

1

ST336

78

M130466

15

M133990

63

ST399a

2

M133577

2

DAS  
6  
989  
DAS  
27  
989

DAS  
6  
989  
MAR 07 2016  
DAS  
27  
989

# Picklist Print

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Work Order ID: 141223

**\*141223\***

Parent Item: D209-669-013

**\*D209-669-013\***

Parent Item Name: AH-1F/P/S Skidtube LH with Standard Wearplates

Start Date: 2/1/2016

Required Date: 3/14/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0563J

Purchased

No

110

Each

1,350.000

8

8

**\*NAS1149D0563.J\***

**\*\***

Washer

DAS  
31  
9-89

Location

Loc Qty

Loc Code

GA

53

m125807

53

ST260a

900

m133769

400

m133990

500

ST263

294

m133363

94

m133938

200

ST269

103

m128257

103

DAS

6

9-89

DAS

27

9-89

MS21042L5

Purchased

No

110

Each

672.0000

4

4

**\*MS21042L5\***

**\*\***

Nut

DAS  
31  
9-89

Location

Loc Qty

Loc Code

GA

146

m127813

146

ST007

400

m134055

400

ST303

126

m133577

26

m133790

100

DAS

6

9-89

DAS

27

9-89

MAR 07 2016



# Picklist Print

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Work Order ID: 141223

**\*141223\***

Parent Item: D209-669-013

**\*D209-669-013\***

Parent Item Name: AH-1F/P/S Skidtube LH with Standard Wearplates

Start Date: 2/1/2016

Required Date: 3/14/2016

Start Qty: 1.00

Required Qty: 1.00

AN4-7A Purchased No 110 Each 137.0000 16 16

**\*AN4-7A\***

Bolt

DAS  
31  
9-89

Location

Loc Qty

Loc Code

over003 100  
m133790 100  
ST325 37  
m131320 37

\*\*

DAS  
6  
9-89

DAS  
27  
9-89

NAS1149D0463J

Purchased No

110 Each 5,319.000 32 32

**\*NAS1149D0463.J\***

WASHER

DAS  
31  
9-89

Location

Loc Qty

Loc Code

GA 397  
M129390 41  
M132035 356  
ST260a 2000  
M134039 2000  
ST263 1573  
M134039 1573  
ST269 1349  
M130799 361  
M132317 100  
M132677 888

\*\*

DAS  
6  
9-89

DAS  
27  
9-89

D2929

Manufactured No

110 Each 77.0000 2 2

**\*D2929\***

Spacer

DAS  
31  
9-89

Location

Loc Qty

Loc Code

Mezz 77  
53564 33  
84944 44

\*\*

MAR 07 2016

DAS  
6  
9-89

DAS  
27  
9-89

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Page 6

Work Order ID: 141223

**\*141223\***

Parent Item: D209-669-013

**\*D209-669-013\***

Parent Item Name: AH-1F/P/S Skidtube LH with Standard Wearplates

Start Date: 2/1/2016

Required Date: 3/14/2016

Start Qty: 1.00

Required Qty: 1.00

D2930

Manufactured No

110 Each

28.0000

2 2

**\*D2930\***

Spacer

DAS  
31  
9-89

Location

Loc Qty

Loc Code

Mezz

28

53563

28

2

DAS

6

9-89

27

9-89

D3405-041

Manufactured No

110 Each

15.0000

1 1

**\*D3405-041\***

Ground Handling Lug

DAS  
31  
9-89

Location

Loc Qty

Loc Code

st529

15

119182

7

136519

8

142443

DAS

6

9-89

MAR 23 2016

DAS

27

9-89

AN4C47A

Purchased No

110 Each

28.0000

4 4

**\*AN4C47A\***

Bolt

DAS  
31  
9-89

Location

Loc Qty

Loc Code

FG

10

122491

10

ST341

18

m132879

6

m134050

12

DAS

6

9-89

MAR 07 2016

27

9-89

# Picklist Print

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Work Order ID: 141223

**\*141223\***

Parent Item: D209-669-013

**\*D209-669-013\***

Parent Item Name: AH-1F/P/S Skidtube LH with Standard Wearplates

Start Date: 2/1/2016

Required Date: 3/14/2016

Start Qty: 1.00

Required Qty: 1.00

MS21043-4

Purchased

No

110

Each

1,034.000

5

5

**\*MS21043-4\***

Nut

**\*\***

DAS  
31  
9-89

Location

Loc Qty

Loc Code

FG

40

104603

40

GA

262

m132803

262

ST302

10

m133316

10

ST32

722

m133769

722

DAS  
6  
9-89

DAS  
27  
9-89

MAR 07 2016

D3405-043

Manufactured

No

110

Each

14.0000

1

1

**\*D3405-043\***

Ground Handling Lug

DAS  
31  
9-89

Location

Loc Qty

Loc Code

st529

14

119183

8

135468

3

137180

3

DAS  
6  
9-89

DAS  
27  
9-89

141505

D3407-041

Manufactured

No

110

Each

19.0000

1

1

**\*D3407-041\***

Tow Ring

DAS  
31  
9-89

Location

Loc Qty

Loc Code

st530

19

134755

4

137097

15

DAS  
27  
9-89

MAR 07 2016  
DAS  
6  
9-89

# Picklist Print

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Page 8

Work Order ID: 141223

**\*141223\***

Parent Item: D209-669-013

**\*D209-669-013\***

Parent Item Name: AH-1F/P/S Skidtube LH with Standard Wearplates

Start Date: 2/1/2016

Required Date: 3/14/2016

Start Qty: 1.00

Required Qty: 1.00

D3456-1

Manufactured No

110

Each

125.0000

1

1

**\*D3456-1\***

Washer

DAS  
31  
9-89

Location

Loc Qty

Loc Code

FG

7

25701

7

ST038

118

136922

43

140756

75

\*\*

DAS

6

9-89

DAS

27

9-89

D3417-5

Manufactured No

110

Each

81.0000

2

2

**\*D3417-5\***

Washer

DAS  
31  
9-89

Location

Loc Qty

Loc Code

ST035

81

136618

3

138368

78

\*\*

DAS

27

9-89

DAS  
6  
9-89

9107 29 87W

# **DART SERVICE INSTRUCTION**

**TO AMEND INSTALLATION INSTRUCTIONS IIN-D209-669 REV. B**

## **INSTRUCTIONS:**

- 1) FOR D209-669-011/-012/-013/-014 SKID TUBES @ CHANGE 003 AND SUBSEQUENT, MODIFY THE FOLLOWING:
- a) REPLACE THE D2968-041 TOW RING WITH THE D3407-041 TOW RING ASSEMBLY.
  - b) REPLACE THE D2736-1 AND D2736-3 GHW LUGS WITH THE D3405-041 AND D3405-043 LUG ASSEMBLIES.
  - c) AMEND THE PARTS LIST IN SECTION 5.0 OF INSTALLATION INSTRUCTIONS IIN-D209-669 REV. B AS SHOWN ON PAGE 2 OF THIS DSI.

NOTE: ALL INSTALLATION FASTENERS FOR THE ABOVE CHANGES HAVE BEEN UPDATED. SEE THE AMENDED PARTS LIST ON PAGE 2 FOR DETAILS.

20160203

SA 141223

|            |             |                                                                                                                                                                                                                                                                                                 |              |
|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| A          | NEW ISSUE   | AJS                                                                                                                                                                                                                                                                                             | 09.02.24     |
| REV.       | DESCRIPTION | BY                                                                                                                                                                                                                                                                                              | DATE         |
| DESIGN     | AJS         | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                        |              |
| DRAWN      | AJS         |                                                                                                                                                                                                                                                                                                 |              |
| CHECKED    |             | DRAWING NO.                                                                                                                                                                                                                                                                                     | REV. A       |
| MFG. APPR. | N/A         | DSI 9450                                                                                                                                                                                                                                                                                        | SHEET 1 OF 3 |
| APPROVED   |             | TITLE                                                                                                                                                                                                                                                                                           | SCALE        |
| DE APPR.   |             | SKIDTUBE INSTALLATIONS                                                                                                                                                                                                                                                                          | NTS          |
| DATE       | 09.02.24    | <small>COPYRIGHT © 2009 BY DART AEROSPACE LTD<br/>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS<br/>NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT<br/>WRITTEN PERMISSION FROM DART AEROSPACE LTD</small> |              |

## 5.0 PARTS LIST

| ITEM | QTY<br>-011 | QTY<br>-012 | QTY<br>-013 | QTY<br>-014 | QTY<br>-041 | QTY<br>-043 | PART NUMBER  | DESCRIPTION                              |
|------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------------------------------|
|      | X           |             |             |             |             |             | D209-669-011 | SKIDTUBE INSTALLATION, LH<br>(AH-1W/J)   |
|      |             | X           |             |             |             |             | D209-669-012 | SKIDTUBE INSTALLATION, RH<br>(AH-1W/J)   |
|      |             |             | X           |             |             |             | D209-669-013 | SKIDTUBE INSTALLATION, LH<br>(AH-1P/F/S) |
|      |             |             |             | X           |             |             | D209-669-014 | SKIDTUBE INSTALLATION, RH<br>(AH-1P/F/S) |
|      | 1           | 1           |             |             | X           |             | D209-669-041 | REPLACEMENT SKIDTUBE (AH-1W/J)           |
|      |             |             | 1           | 1           |             | X           | D209-669-043 | REPLACEMENT SKIDTUBE (AH-1P/F/S)         |

**IS:**

|    |    |    |   |   |  |  |           |                   |
|----|----|----|---|---|--|--|-----------|-------------------|
| 50 | 4  | 4  | 1 | 1 |  |  | D3405-041 | LUG ASSEMBLY      |
| 51 | 8  | 8  | 4 | 4 |  |  | AN4C47A   | BOLT              |
| 52 | 16 | 16 | 8 | 8 |  |  | D2570     | BUSHING           |
| 53 | 8  | 8  | 4 | 4 |  |  | MS21043-4 | NUT               |
| 54 |    |    | 1 | 1 |  |  | D3405-043 | LUG ASSEMBLY      |
| 60 | 1  | 1  | 1 | 1 |  |  | D3407-041 | TOW RING ASSEMBLY |
| 61 | 1  | 1  | 1 | 1 |  |  | D3456-1   | WASHER            |
| 62 | 1  | 1  | 1 | 1 |  |  | MS21043-4 | NUT               |
| 63 | 2  | 2  | 2 | 2 |  |  | D3417-5   | WASHER            |

**WAS:**

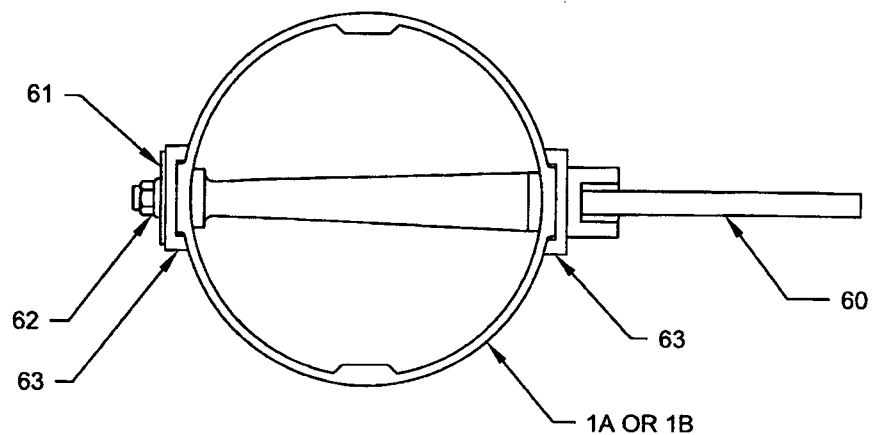
|    |    |    |   |   |  |  |           |                    |
|----|----|----|---|---|--|--|-----------|--------------------|
| 50 | 4  | 4  | 1 | 1 |  |  | D2736-1   | GHW LUG            |
| 51 | 8  | 8  | 4 | 4 |  |  | AN4-46A   | BOLT               |
| 52 | 16 | 16 | 8 | 8 |  |  | D2570     | BUSHING            |
| 53 | 8  | 8  | 4 | 4 |  |  | MS21042L4 | NUT (OR MS21042-4) |
| 54 |    |    | 1 | 1 |  |  | D2736-3   | GHW LUG            |
| 60 | 1  | 1  | 1 | 1 |  |  | D2968-041 | TOW RING           |
| 61 | 1  | 1  | 1 | 1 |  |  | AN970-4   | WASHER             |
| 62 | 1  | 1  | 1 | 1 |  |  | MS21042L4 | NUT (OR MS21042-4) |

|            |          |                                                          |
|------------|----------|----------------------------------------------------------|
| DESIGN     | AJS      | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA |
| DRAWN      | AJS      |                                                          |
| CHECKED    |          | DRAWING NO.                                              |
| MFG. APPR. | N/A      | DSI 9450                                                 |
| APPROVED   |          | TITLE                                                    |
| DE APPR.   |          | SKIDTUBE INSTALLATIONS                                   |
| DATE       | 09.02.24 | REV. A<br>SHEET 2 OF 3<br>SCALE<br>NTS                   |

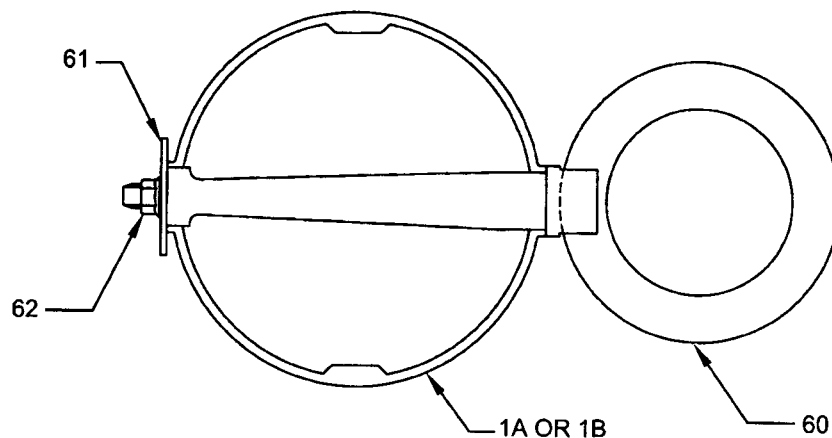
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INSTALL TOW RING ASSEMBLY AS SHOWN BELOW (REFER TO SECTION F-F OF IIN-D209-669 REV. B.

**IS:**



**WAS:**



NO PICTORIAL CHANGE REQUIRED FOR GROUND HANDLING WHEEL LUG CHANGES.

|            |          |                                                                                                                                                                                                                                                                                        |              |
|------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     | AJS      | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                               |              |
| DRAWN      | AJS      |                                                                                                                                                                                                                                                                                        |              |
| CHECKED    |          | DRAWING NO.                                                                                                                                                                                                                                                                            | REV. A       |
| MFG. APPR. | N/A      | DSI 9450                                                                                                                                                                                                                                                                               | SHEET 3 OF 3 |
| APPROVED   |          | TITLE                                                                                                                                                                                                                                                                                  | SCALE        |
| DE APPR.   |          | SKIDTUBE INSTALLATIONS                                                                                                                                                                                                                                                                 | NTS          |
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D/A  
31  
9-89**4.0 WEIGHT AND BALANCE**

The following weight and balance information is for the replacement Dart parts. The weight and balance of the skidtubes that are being removed from the aircraft is the responsibility of the installer.

| Installation          | Weight  | LONGITUDINAL |            |
|-----------------------|---------|--------------|------------|
|                       |         | Arm          | Moment     |
| D209-669-011/-012     | 49.6 lb | 170.4 in     | 8452 in lb |
| SKIDTUBE INSTALLATION | 22.5 kg | 4.33 m       | 97.4 m kg  |
| D209-669-013/-014     | 43.8 lb | 176.5 in     | 7731 in lb |
| SKIDTUBE INSTALLATION | 19.9 kg | 4.48 m       | 89.2 m kg  |

**5.0 PARTS LIST**

| Item | Qty<br>-011 | Qty<br>-012 | Qty<br>-013 | Qty<br>-014 | Qty<br>-041 | Qty<br>-043 | Part Number  | Description                           |
|------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------------------------------|
|      | X           |             |             |             |             |             | D209-669-011 | SKIDTUBE INSTALLATION, LH (AH-1W/J)   |
|      |             | X           |             |             |             |             | D209-669-012 | SKIDTUBE INSTALLATION, RH (AH-1W/J)   |
|      |             |             | X           |             |             |             | D209-669-013 | SKIDTUBE INSTALLATION, LH (AH-1P/F/S) |
|      |             |             |             | X           |             |             | D209-669-014 | SKIDTUBE INSTALLATION, RH (AH-1P/F/S) |
|      | 1           | 1           |             |             | X           |             | D209-669-041 | REPLACEMENT SKIDTUBE (AH-1W/J)        |
|      |             |             | 1           | 1           |             | X           | D209-669-043 | REPLACEMENT SKIDTUBE (AH-1P/F/S)      |
| 1A   |             |             |             |             | 1           |             | D2906-041    | SKIDTUBE ASSEMBLY                     |
| 1B   |             |             |             |             |             | 1           | D2906-043    | SKIDTUBE ASSEMBLY                     |
| 2    | 1           |             | 2           |             |             |             | D2917-1      | OUTER SADDLE (FWD, LH)                |
| 3    |             | 1           |             | 2           |             |             | D2917-2      | OUTER SADDLE (FWD, RH)                |
| 4    | 1           |             | 2           |             |             |             | D2918-1      | INNER SADDLE (FWD, LH)                |
| 5    |             | 1           |             | 2           |             |             | D2918-2      | INNER SADDLE (FWD, RH)                |
| 6    | 1           |             |             |             |             |             | D2919-1      | OUTER SADDLE (AFT, LH)                |
| 7    |             | 1           |             |             |             |             | D2919-2      | OUTER SADDLE (AFT, RH)                |
| 8    | 1           |             |             |             |             |             | D2920-1      | INNER SADDLE (AFT, LH)                |
| 9    |             | 1           |             |             |             |             | D2920-2      | INNER SADDLE (AFT, RH)                |
| 10   | 8           | 8           | 8           | 8           |             |             | AN4-51A      | BOLT                                  |
| 11   | 16          | 16          | 16          | 16          |             |             | D2570        | BUSHINGS                              |
| 12   | 8           | 8           | 8           | 8           |             |             | MS21042L4    | NUT (OR MS21042-4)                    |
| 13   | 2           | 2           | 4           | 4           |             |             | AN5-36A      | BOLT                                  |
| 14   | 2           | 2           |             |             |             |             | AN5-41A      | BOLT                                  |
| 15   | 8           | 8           | 8           | 8           |             |             | AN960JD516   | WASHER                                |
| 16   | 4           | 4           | 4           | 4           |             |             | MS21042L5    | NUT (OR MS21042-5)                    |
| 17   | 16          | 16          | 16          | 16          |             |             | AN4-7A       | BOLT                                  |
| 18   | 32          | 32          | 32          | 32          |             |             | AN960JD416   | WASHER                                |
| 19   | 16          | 16          | 16          | 16          |             |             | MS21042L4    | NUT (OR MS21042-4)                    |

CONTINUED ON NEXT PAGE

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Revision: **B**

Date: 07.08.23



## CONTINUED FROM PREVIOUS PAGE

|      |    |                 |   |   |    |    |               |                                                                  |
|------|----|-----------------|---|---|----|----|---------------|------------------------------------------------------------------|
| 20   | 2  | 2               | 2 | 2 |    |    | D2929         | SPACER                                                           |
| 21   | 2  | 2               | 2 | 2 |    |    | D2930         | SPACER                                                           |
|      |    |                 |   |   |    |    |               |                                                                  |
| *30A |    |                 |   |   | 1  | 1  | D3564-9       | WEARSHOE (REPLACES D2577-1)                                      |
| *30B |    |                 |   |   | 1  | 1  | D3566-1       | GASKET                                                           |
| *31A |    |                 |   |   | 1  |    | D3564-15      | WEARSHOE (REPLACES 18" D2577-5)                                  |
| *31B |    |                 |   |   | 1  |    | D3566-15      | GASKET                                                           |
| *32A |    |                 |   |   | 1  | 1  | D3564-11      | WEARSHOE (REPLACES D2577-3)                                      |
| *32B |    |                 |   |   | 1  | 1  | D3566-1       | GASKET                                                           |
| *33A |    |                 |   |   | 1  | 1  | D3564-5       | WEARSHOE (REPLACES D2577-5)                                      |
| *33B |    |                 |   |   | 1  | 1  | D3566-5       | GASKET                                                           |
| *34  |    |                 |   |   | 50 | 44 | AN3C4A        | BOLT (REPLACES AN3-4A)                                           |
| *35  |    |                 |   |   | 50 | 44 | AN960C10L     | WASHER (REPLACES AN960JD10L)                                     |
| *36  |    |                 |   |   | 50 | 44 | AKS7-1032-130 | INSERT (OR ALS7-1032-130, OR<br>ALS4-1032-130, OR AKS4-1032-130) |
| *37  |    |                 |   |   | 12 | 14 | D2594-1       | PLUG                                                             |
| *38  |    |                 |   |   | 12 | 14 | D2594-3       | O-RING                                                           |
|      |    |                 |   |   |    |    |               |                                                                  |
| *40  |    |                 |   |   | 2  | 2  | D2855         | AFT CAP                                                          |
| *41  |    |                 |   |   | 4  | 4  | AN3-5A        | BOLT                                                             |
| *42  |    |                 |   |   | 4  | 4  | AN960JD10L    | WASHER                                                           |
| *43  |    |                 |   |   | 4  | 4  | AKS7-1032-225 | INSERT (OR ALS7-1032-225, OR<br>ALS4-1032-225, OR AKS4-1032-225) |
|      |    |                 |   |   |    |    |               |                                                                  |
| 50   | 4  | 4               | 1 | 1 |    |    | D2736-1       | GHW LUG                                                          |
| 51   | 8  | 8               | 4 | 4 |    |    | AN4-46A       | BOLT                                                             |
| 52   | 16 | 16              | 8 | 8 |    |    | D2570         | BUSHING                                                          |
| 53   | 8  | <del>16</del> 4 | 4 | 4 |    |    | MS21042L4     | NUT (OR MS21042-4)                                               |
| 54   |    |                 | 1 | 1 |    |    | D2736-3       | LUG ASSEMBLY                                                     |
|      |    |                 |   |   |    |    |               |                                                                  |
| 60   | 1  | 1               | 1 | 1 |    |    | D2968-041     | TOW RING                                                         |
| 61   | 1  | 1               | 1 | 1 |    |    | AN970-4       | WASHER                                                           |
| 62   | 1  | 1               | 1 | 1 |    |    | MS21042L4     | NUT (OR MS21042-4)                                               |

\* DENOTES THAT PART IS INCLUDED WITH D2906-041/043 SKIDTUBE ASSEMBLY

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Revision: **B**

Date: 07.08.23

REFERENCE ONLY

### 5.0 PARTS LIST

| ITEM | QTY<br>-011 | QTY<br>-012 | QTY<br>-013 | QTY<br>-014 | QTY<br>-041 | QTY<br>-043 | PART NUMBER  | DESCRIPTION                              |
|------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------------------------------|
|      | X           |             |             |             |             |             | D209-669-011 | SKIDTUBE INSTALLATION, LH<br>(AH-1W/J)   |
|      |             | X           |             |             |             |             | D209-669-012 | SKIDTUBE INSTALLATION, RH<br>(AH-1W/J)   |
|      |             |             | X           |             |             |             | D209-669-013 | SKIDTUBE INSTALLATION, LH<br>(AH-1P/F/S) |
|      |             |             |             | X           |             |             | D209-669-014 | SKIDTUBE INSTALLATION, RH<br>(AH-1P/F/S) |
|      | 1           | 1           |             |             | X           |             | D209-669-041 | REPLACEMENT SKIDTUBE (AH-1W/J)           |
|      |             |             | 1           | 1           |             | X           | D209-669-043 | REPLACEMENT SKIDTUBE (AH-1P/F/S)         |

**IS:**

|    |    |    |   |   |  |  |           |                   |
|----|----|----|---|---|--|--|-----------|-------------------|
| 50 | 4  | 4  | 1 | 1 |  |  | D3405-041 | LUG ASSEMBLY      |
| 51 | 8  | 8  | 4 | 4 |  |  | AN4C47A   | BOLT              |
| 52 | 16 | 16 | 8 | 8 |  |  | D2570     | BUSHING           |
| 53 | 8  | 8  | 4 | 4 |  |  | MS21043-4 | NUT               |
| 54 |    |    | 1 | 1 |  |  | D3405-043 | LUG ASSEMBLY      |
| 60 | 1  | 1  | 1 | 1 |  |  | D3407-041 | TOW RING ASSEMBLY |
| 61 | 1  | 1  | 1 | 1 |  |  | D3456-1   | WASHER            |
| 62 | 1  | 1  | 1 | 1 |  |  | MS21043-4 | NUT               |
| 63 | 2  | 2  | 2 | 2 |  |  | D3417-5   | WASHER            |

**WAS:**

|    |    |    |   |   |  |  |           |                    |
|----|----|----|---|---|--|--|-----------|--------------------|
| 50 | 4  | 4  | 1 | 1 |  |  | D2736-1   | GHW LUG            |
| 51 | 8  | 8  | 4 | 4 |  |  | AN4-46A   | BOLT               |
| 52 | 16 | 16 | 8 | 8 |  |  | D2570     | BUSHING            |
| 53 | 8  | 8  | 4 | 4 |  |  | MS21042L4 | NUT (OR MS21042-4) |
| 54 |    |    | 1 | 1 |  |  | D2736-3   | GHW LUG            |
| 60 | 1  | 1  | 1 | 1 |  |  | D2968-041 | TOW RING           |
| 61 | 1  | 1  | 1 | 1 |  |  | AN970-4   | WASHER             |
| 62 | 1  | 1  | 1 | 1 |  |  | MS21042L4 | NUT (OR MS21042-4) |

|            |          |                                                                                                                                                                                                                                                                                             |
|------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESIGN     | AJS      | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                    |
| DRAWN      | AJS      |                                                                                                                                                                                                                                                                                             |
| CHECKED    |          | DRAWING NO. REV. A                                                                                                                                                                                                                                                                          |
| MFG. APPR. | N/A      | DSI 9450 SHEET 2 OF 3                                                                                                                                                                                                                                                                       |
| APPROVED   |          | TITLE SCALE                                                                                                                                                                                                                                                                                 |
| DE APPR.   |          | SKIDTUBE INSTALLATIONS NTS                                                                                                                                                                                                                                                                  |
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